

State of Colorado
Energy & Carbon Management Commission

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Document Number:
404371925

Receive Date:

Report taken by:

Site Investigation and Remediation Workplan (Supplemental Form)

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. However, this shall not preclude the Operator from taking immediate action to protect public health or safety, the environment, wildlife, or livestock.

This Form 27 describes site conditions as currently understood by the Operator; approval of this Form 27 by ECMC is based on the site conditions accurately described herein; any changes in site conditions identified during or subsequent to the performance of the approved workplan may necessitate additional investigation or remediation which shall be described on a supplemental Form 27.

This Form 27 is intended to provide basic information regarding the proposed site investigation and remediation actions, but the workplan may be more fully described in attached documentation.

Closure request is not available for an Initial Site Investigation and Remediation Workplan.

OPERATOR INFORMATION

Name of Operator: <u>PDC ENERGY INC</u>	Operator No: <u>69175</u>	Phone Numbers
Address: <u>1099 18TH STREET SUITE 1500</u>		Phone: <u>(970) 304-5000</u>
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80202</u>		Mobile: <u>()</u>
Contact Person: <u>Lauren Hoff</u>	Email: <u>RBUEUF27@chevron.com</u>	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 33447 Initial Form 27 Document #: 403626812

PURPOSE INFORMATION

- Rule 913.c.(1): Pit or Cuttings Trench closure.
- Rule 913.c.(2): Buried or partially buried vessel closure, which will be by removal.
- Rule 913.c.(3): Remediation of Spill and Releases pursuant to Rule 912.
- Rule 913.c.(4): Land treatment of Oily Waste pursuant to Rule 905.e.
- Rule 913.c.(5): Closure of Centralized E&P Waste Management Facilities pursuant to Rule 907.h.
- Rule 913.c.(6): Remediation of impacted Groundwater pursuant to Rule 915.e.(3).D, and the contaminant concentrations in Table 915-1.
- Rule 913.c.(7): Investigation and remediation of natural gas in soil or Groundwater.
- Rule 913.c.(8): When requested by the Director due to any potential risk to soil, Groundwater, or surface water.
- Rule 913.c.(9): Decommissioning of Oil and Gas Facilities.
- Rule 913.g: Changes of Operator.
- Rule 915.b: Request to leave elevated inorganics in situ.
- Other: _____

SITE INFORMATION

Yes Multiple Facilities

Facility Type: <u>WELL</u>	Facility ID: _____	API #: <u>123-37692</u>	County Name: <u>WELD</u>
Facility Name: <u>Merritt 6-66-9-0560CH</u>	Latitude: <u>40.509320</u>	Longitude: <u>-104.781140</u>	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: <u>NWNE</u>	Sec: <u>9</u>	Twp: <u>6N</u>	Range: <u>66W</u> Meridian: <u>6</u> Sensitive Area? <u>Yes</u>

Facility Type: <u>WELL</u>	Facility ID: _____	API #: <u>123-37694</u>	County Name: <u>WELD</u>
Facility Name: <u>Merritt 6-66-9-0758BH</u>	Latitude: <u>40.509320</u>	Longitude: <u>-104.780700</u>	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: <u>NWNE</u>	Sec: <u>9</u>	Twp: <u>6N</u>	Range: <u>66W</u> Meridian: <u>6</u> Sensitive Area? <u>Yes</u>

Facility Type: WELL	Facility ID: _____	API #: 123-37706	County Name: WELD
Facility Name: Merritt 6-66-9-0857CH	Latitude: 40.509330	Longitude: -104.780480	
** correct Lat/Long if needed: Latitude: 40.509328	Longitude: -104.780489		
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes
Facility Type: WELL	Facility ID: _____	API #: 123-37710	County Name: WELD
Facility Name: Merritt 6-66-9-0659BH	Latitude: 40.509320	Longitude: -104.781030	
** correct Lat/Long if needed: Latitude: _____	Longitude: _____		
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes
Facility Type: WELL	Facility ID: _____	API #: 123-37713	County Name: WELD
Facility Name: Merritt 6-66-9-0659CH	Latitude: 40.509320	Longitude: -104.780980	
** correct Lat/Long if needed: Latitude: _____	Longitude: _____		
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes
Facility Type: WELL	Facility ID: _____	API #: 123-37722	County Name: WELD
Facility Name: Merritt 6-66-9-0560BH	Latitude: 40.509320	Longitude: -104.781200	
** correct Lat/Long if needed: Latitude: 40.509324	Longitude: -104.781206		
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes
Facility Type: WELL	Facility ID: _____	API #: 123-37729	County Name: WELD
Facility Name: Merritt 6-66-9-0758CDH	Latitude: 40.509330	Longitude: -104.780580	
** correct Lat/Long if needed: Latitude: 40.509328	Longitude: -104.780595		
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes
Facility Type: WELL	Facility ID: _____	API #: 123-37734	County Name: WELD
Facility Name: Merritt 6-66-9-0857BH	Latitude: 40.509330	Longitude: -104.780530	
** correct Lat/Long if needed: Latitude: 40.509327	Longitude: -104.780544		
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes
Facility Type: WELL	Facility ID: _____	API #: 123-37740	County Name: WELD
Facility Name: Merritt 6-66-9-0758CH	Latitude: 40.509320	Longitude: -104.780640	
** correct Lat/Long if needed: Latitude: 40.509328	Longitude: -104.780646		
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes
Facility Type: SPILL OR RELEASE	Facility ID: 486171	API #: _____	County Name: WELD
Facility Name: Merritt 6-66-9-0659BH Wellhead	Latitude: 40.509316	Longitude: -104.781023	
** correct Lat/Long if needed: Latitude: _____	Longitude: _____		
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes
Facility Type: SPILL OR RELEASE	Facility ID: 486298	API #: _____	County Name: WELD
Facility Name: Merritt 6-66-9-0560CH Wellhead	Latitude: 40.509316	Longitude: -104.781133	
** correct Lat/Long if needed: Latitude: _____	Longitude: _____		
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes
Facility Type: SPILL OR RELEASE	Facility ID: 487057	API #: _____	County Name: WELD
Facility Name: Merritt 6-66-9-0659CH	Latitude: 40.509320	Longitude: -104.781140	
** correct Lat/Long if needed: Latitude: _____	Longitude: _____		
QtrQtr: NWNE	Sec: 9	Twp: 6N	Range: 66W Meridian: 6 Sensitive Area? Yes

Will soil samples be collected as part of this investigation? (Number, type (grab/composite), analyses, and locations of samples):

Following the discovery of the historical release at the 0659BH wellhead on 02/28/24, an excavation was taken to 9' below ground surface to remove the impacts. A total of 24 cy of material was hauled to the Waste Management facility in Ault, CO, for disposal. The analytical results for the floor and sidewall excavation samples indicate that the impacts were successfully removed.

Soil sampling was conducted as described in the Initial Action Summary of this Form 27. Sampling deviated from the approved sampling plan in Initial Form 27 # 403626812 because the flowlines and gas lines did not follow the path prescribed by the proposed sample location map. Sampling was conducted per ECMC guidance, except for missing lab samples at the directional changes in the proposed site investigation plan. The decommissioning/excavation soil samples collected during the initial site actions were analyzed by a certified laboratory for Table 915-1 organic compounds, metals, pH, EC, SAR, and/or Boron.

Proposed Groundwater Sampling

Will groundwater samples be collected as part of this investigation? (Number, analyses, and locations of samples):

Groundwater was encountered during remedial excavation activities at the Merritt 6-66-9-0659BH Wellhead at 10 feet below ground surface, and a grab sample was collected as soon as practical. Groundwater samples were submitted for laboratory analysis of BTEX, naphthalene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene by EPA Method 8260, chloride and sulfate anions by EPA Method 300.0, and total dissolved solids (TDS) by Method SM 2540C.

Proposed Surface Water Sampling

Will surface water samples be collected as part of this investigation? (Number, analyses, and locations of samples):

Additional Investigative Actions

Additional alternative investigative actions described in attached Site Investigation Plan (summary):

Visual inspection of each of the 9 wellheads and flowlines was conducted during decommissioning. Field personnel screened all disturbed areas using visual and olfactory senses to determine if laboratory confirmation sampling was required. A detailed summary of the wellhead and flowline decommissionings, including analytical tables, figures, photo logs, and laboratory reports, was attached to Form 27 # 403808631.

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil	NA / ND
Number of soil samples collected <u>168</u>	-- <u>2090</u> Highest concentration of TPH (mg/kg)
Number of soil samples exceeding 915-1 <u>167</u>	-- <u>6</u> Highest concentration of SAR
Was the areal and vertical extent of soil contamination delineated? <u>No</u>	BTEX > 915-1 <u>Yes</u>
Approximate areal extent (square feet) <u>2000</u>	Vertical Extent > 915-1 (in feet) <u>10</u>
Groundwater	
Number of groundwater samples collected <u>1</u>	ND <u> </u> Highest concentration of Benzene (µg/l)
Was extent of groundwater contaminated delineated? <u>No</u>	ND <u> </u> Highest concentration of Toluene (µg/l)
Depth to groundwater (below ground surface, in feet) <u>10</u>	ND <u> </u> Highest concentration of Ethylbenzene (µg/l)
Number of groundwater monitoring wells installed <u>0</u>	ND <u> </u> Highest concentration of Xylene (µg/l)
Number of groundwater samples exceeding 915-1 <u>1</u>	ND <u> </u> Highest concentration of Methane (mg/l)
Surface Water	
<u>0</u> Number of surface water samples collected	
<u> </u> Number of surface water samples exceeding 915-1	
If surface water is impacted, other agency notification may be required.	

OTHER INVESTIGATION INFORMATION

Were impacts to adjacent property or offsite impacts identified?

Were background samples collected as part of this site investigation?

Between March 1 and April 3, 2024, soil borings BKG01 & BKG02 were advanced in native material adjacent to the well pad. A total of 6 soil samples were collected at depths ranging between 4' and 8' bgs and analyzed for pH, EC, SAR, and Table 915-1 metals. The maximum observed background concentrations for pH and SAR were 8.28 and 7.31, respectively. The maximum observed background concentrations with a 1.25x multiplier applied for arsenic, barium, & cadmium were 6.94 mg/kg, 143 mg/kg, & 0.450 mg/kg, respectively. Background concentrations of selenium did not exceed reporting limits.

Site concentrations of SAR were below background levels. Site concentrations of pH, arsenic, barium, cadmium, and selenium were observed in excess of Table 915-1 standards and background concentrations.

Was investigation derived waste (IDW) generated as part of this investigation?

Volume of solid waste (cubic yards) 915 Volume of liquid waste (barrels) 0

Is further site investigation required?

Following the 2Q/3Q24 excavations, sample locations exhibiting concentrations of organic/inorganic/metal constituents exceeding Table 915-1 standards and background concentrations remain in situ. A site investigation will be conducted to install groundwater monitoring wells, collect missing decommissioning samples, and collect additional background samples. A network of 9 groundwater monitoring wells will be installed to a depth of 20' bgs in borings BH01-BH09. Soil samples will be collected at the highest PID and terminus of each boring. Missing samples from the directional changes in the flowlines and gas lines between the tank battery and manifold will be collected from soil borings FL01-09, FL01-10, and GL02-03. Soil samples collected from the monitoring well and decommissioning borings will be analyzed for all Table 915-1 constituents. Background soil samples will be collected from soil borings BKG03-BKG07 and analyzed for Table 915-1 metals, pH, EC, SAR, and boron. The monitoring well, decommissioning, and background boring locations are illustrated in the proposed site investigation plan attached to this Form 27. The investigation will be conducted per the proposed implementation schedule, and the results will be provided in a subsequent Form 27.

REMEDIAL ACTION PLAN

Does this Supplemental Form 27A include changes to a previously approved Remedial Action Plan? Yes

SOURCE REMOVAL SUMMARY

Describe how source is to be removed.

During decommissioning activities between 02/27/24 and 02/29/24, approximately 26 cy of impacted material was removed from the Merritt 6-66-9-0560BH/CH, 0659BH, 0857BH Wellheads. Between 06/06/24 and 06/07/24, approximately 42.5 cy and 107.5 cy of material were removed from the 0560CH and 0659BH/CH Wellheads, respectively. Between 07/09/24 and 07/18/24, approximately 730 cy of material were removed from the Merritt Wellhead Pad. All exported soils were transported to North Weld Waste Management in Ault, CO, for disposal under PDC waste manifests.

The hydrocarbon impacts observed at the 0560CH Wellhead (sample location WH02@6') were addressed via remedial excavation on 06/07/24. The excavation measured ~20'x12'x9' below ground surface (bgs). Samples were collected from the excavation base and sidewalls in each cardinal direction at 7' bgs and analyzed for all Table 915-1 constituents. Sample SS06 was collected at 2.5' bgs to evaluate on-pad soil suitability standards. Analytical results indicate that hydrocarbon impacts were below Table 915-1 standards.

The hydrocarbon impacts observed at the 0659BH/CH Wellheads (sample locations WC01@4' & FLR05@4') were addressed via remedial excavation on 06/06/24 and 06/07/24. The excavation measured ~30'x15'x10' bgs. Samples were collected from the excavation base at two locations, and 18 total sidewall samples were collected at 6 locations at depth intervals of 4', 6', and 10' bgs. Samples were analyzed for a reduced list of Table 915-1 contaminants. Sample SS26 was collected at 2.5' bgs to evaluate on-pad soil suitability standards. Groundwater was encountered at 10' bgs, sampled, and analyzed for all Table 915-1 organics and inorganics. Analytical results indicate that benzo(a)anthracene concentrations in excess of Table 915-1 standards in the northwest corner of the excavation at sample locations SS07@4' and SS08@6'. No hydrocarbon impacts to groundwater were detected in sample GW01, but inorganics exceeded Table 915-1.

REMEDIATION SUMMARY

Describe how remediation of existing impacts to soil and groundwater is to be accomplished (i.e. summarize remedial action plan). Provide a brief narrative description including: technical justification, schedule for implementation, estimated time to attain NFA status, plus plans and specifications for the selected remedial action technology.

During reclamation at the wellhead pad on 07/09/24, a 4th historic release was discovered as reported under Spill ID # 487274. Waste characterization sample WC03@1' was collected from the most impacted material on the wellhead pad and analyzed for all Table 915-1 contaminants. Analytical results indicate that organic compounds exceeded Table 915-1 standards. A remedial excavation was conducted to address the impacts between 07/12/24 & 07/18/24. The maximum lateral extent of the excavation was approximately 130'x75'. The entire extent was excavated to a minimum of 1' bgs and a maximum of 4' bgs within the east/central area. Groundwater was not encountered during the excavation. Soil samples SS01-SS50 were collected from the base/sidewalls of the excavation per ECMC guidance and analyzed for all Table 915-1 contaminants. Analytical results indicate that organic compounds were below applicable standards in samples collected from the final excavation extent. A summary of the 2Q/3Q24 excavation activities was attached to prior Form 27 # 403927308.

Following the 2Q/3Q24 excavations, sample locations exhibiting concentrations of organic/inorganic/metal constituents exceeding Table 915-1 standards/background concentrations remain in situ. The benzo(a)anthracene concentrations at sample locations SS07@4' & SS08@6' are above the Protection of Groundwater Soil Screening Levels (GSSLs) and below Residential Soil Screening Levels (RSSLS). Site samples also exhibit pH, arsenic, barium, cadmium, and/or selenium exceeding Table 915-1 standards.

A site investigation will be conducted to install groundwater monitoring wells, collect missing decommissioning samples, and collect additional background samples. The soil boring locations are illustrated in the proposed site investigation plan attached to this Form 27. The investigation will be conducted per the proposed implementation schedule, and the results will be provided in a subsequent Form 27.

Soil Remediation Summary

In Situ

Ex Situ

 Bioremediation (or enhanced bioremediation) Yes Excavate and offsite disposal

 Chemical oxidation If Yes: Estimated Volume (Cubic Yards) 906

 Air sparge / Soil vapor extraction Name of Licensed Disposal Facility or ECMC Facility ID #

_____ Natural Attenuation
_____ Other _____

_____ Excavate and onsite remediation
_____ Land Treatment
_____ Bioremediation (or enhanced bioremediation)
_____ Chemical oxidation
_____ Other _____

Groundwater Remediation Summary

_____ Bioremediation (or enhanced bioremediation)
_____ Chemical oxidation
_____ Air sparge / Soil vapor extraction
_____ Natural Attenuation
_____ Other _____

GROUNDWATER MONITORING

If groundwater has been impacted, describe proposed monitoring plan, including # of wells or sample points, monitoring schedule, analytical methods, points of compliance. Attach a groundwater monitoring location diagram.

A network of groundwater monitoring wells will be installed during the site investigation proposed in the Site Investigation Report section of this Form 27. Following the well installation and development, quarterly monitoring will be conducted to investigate any potential hydrocarbon impacts in groundwater.

REMEDIATION PROGRESS UPDATE

PERIODIC REPORTING

Approved Reporting Schedule:

Quarterly Semi-Annually Annually Other

Request Alternative Reporting Schedule:

Semi-Annually Annually Other

Rule 913.e:

After initial approval of a Form 27, the Operator will provide quarterly update reports in a Supplemental Form 27 to document progress of site investigation and remediation, unless an alternative reporting schedule has been requested by the Operator and approved by the Director. The Director may request a more frequent reporting schedule based on site-specific conditions.

Report Type: Groundwater Monitoring Land Treatment Progress Report O&M Report
 Other Updated Site Investigation Proposal

Adequacy of Operator's General Liability Insurance and Financial Assurance

Describe the adequacy of the Operator's general liability insurance and Financial Assurance to fully address the anticipated costs of Remediation, including the estimated remaining cost for this project (below).
If this information has been provided on a Form 27 within the last 12 months, provide the Document Number of that form.

Noble intends to directly address the costs of remediation at the locations as part of our asset retirement obligation process and operations. Noble has general liability insurance (policies MWZZ316714 and MWZX316724) and financial assurance in compliance with ECMC rules. Records are available on the ECMC's website. The cost for remediation is an estimate only, costs may change upwards or downward based on site-specific information. Noble makes no representation or guarantees as to the accuracy of the estimate.

Operator anticipates the remaining cost for this project to be: \$ 50000

WASTE DISPOSAL INFORMATION

Was E&P waste generated as part of this remediation? Yes

Describe beneficial use, if any, of E&P Waste derived from this remediation project:

No beneficial use

Volume of E&P Waste (solid) in cubic yards 906

E&P waste (solid) description Hydrocarbon Impacted Material

ECMC Disposal Facility ID #, if applicable:

Non-ECMC Disposal Facility: North Weld Waste Management

Volume of E&P Waste (liquid) in barrels 0

E&P waste (liquid) description

ECMC Disposal Facility ID #, if applicable:

Non-ECMC Disposal Facility:

REMEDIATION COMPLETION REPORT

REMEDIATION COMPLETION SUMMARY

Is this a Final Closure Request for this Remediation Project? No

If YES:

- Compliant with Rule 913.h.(1).
- Compliant with Rule 913.h.(2).
- Compliant with Rule 913.h.(3).

Do all soils meet Table 915-1 standards? _____

Does the previous reply indicate consideration of background concentrations? _____

Does Groundwater meet Table 915-1 standards? _____

Is additional groundwater monitoring to be conducted? _____

Operator shall comply with the ECMC 1000-Series Reclamation Requirements for all impacted and disturbed areas.

RECLAMATION PLAN

RECLAMATION PLANNING

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeded program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing.

Reclamation will be conducted in accordance with ECMC 1000 Series Rules.

Is the described reclamation complete? Yes _____

Does the reclamation described herein constitute interim or final reclamation of the Oil and Gas Location?

Interim Final

Did the Surface Owner provide the seed mix? _____

If YES, does the seed mix comply with local soil conservation district recommendations? _____

Did the local soil conservation district provide the seed mix? _____

SITE RECLAMATION DATES

Proposed date of commencement of Reclamation. 02/28/2024

Proposed date of completion of Reclamation. 02/20/2028

IMPLEMENTATION SCHEDULE

Per Rule 913.d.(2): Any change from the approved implementation schedule will be requested at least 14 days in advance, and the Operator may not make the change without the Director's approval.

PRIOR DATES

Date of Surface Owner notification/consultation, if required. 10/26/2023

Actual Spill or Release date, or date of discovery. 02/29/2024

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 01/08/2024

Proposed site investigation commencement. 10/02/2025

Proposed completion of site investigation. 02/20/2026

REMEDIAL ACTION DATES

Proposed start date of Remediation. 02/20/2026

Proposed date of completion of Remediation. 08/20/2027

Per Rule 913.d.(2): Any change from the approved implementation schedule will be requested at least 14 days in advance, and the Operator may not make the change without the Director's approval.

Change from approved implementation schedule per Rule 913.d.(2).

Basis for change in implementation schedule:

The operator is requesting an alteration to the implementation schedule approved in Form 27 # 404091256 to reflect the updated site investigation proposal for the Merritt 6-66-9 Wellheads and Flowlines. The site investigation proposed in the Site Investigation Report section of this Form 27 has been tentatively scheduled for 02/20/2026. The proposed completion of remediation & reclamation dates have been updated to accommodate 6 quarters of groundwater monitoring following the site investigation. The ECMC will be notified of any updates to the implementation schedule in a subsequent Form 27.

OPERATOR COMMENT

This Form 27 is being submitted to include an updated site investigation plan for the Merritt 6-66-9 Wellheads and Flowlines. This Form 27 also aims to address the general comment on denied Form 27 # 404264654.

Following the 2Q/3Q24 excavations, sample locations exhibiting concentrations of organic/inorganic/metal constituents exceeding Table 915-1 standards and background concentrations remain in situ. The benzo(a)anthracene concentrations at sample locations SS07@4' and SS08@6' are above the Protection of Groundwater Soil Screening Levels (GSSLs) and below Residential Soil Screening Levels (RSSLs). Site samples also exhibit pH, arsenic, barium, cadmium, and/or selenium exceeding Table 915-1 standards. Given the site conditions, the operator has updated the proposed remedial action plan from an excavation to installing a network of groundwater monitoring wells and collecting additional background samples.

A site investigation will be conducted to install groundwater monitoring wells, collect missing decommissioning samples, and collect additional background samples. A network of 9 groundwater monitoring wells will be installed to a depth of 20' bgs in borings BH01-BH09. Soil samples will be collected at the highest PID and terminus of each boring. Missing samples from the directional changes in the flowlines and gas lines between the tank battery and manifold will be collected from soil borings FL01-09, FL01-10, and GL02-03. Soil samples collected from the monitoring well and decommissioning borings will be analyzed for all Table 915-1 constituents. Background soil samples will be collected from soil borings BKG03-BKG07 and analyzed for Table 915-1 metals, pH, EC, SAR, and boron. The monitoring well, decommissioning, and background boring locations are illustrated in the proposed site investigation plan attached to this Form 27.

To address the general comment on denied Form 27 # 404264654, the operator is requesting an alteration to the proposed implementation schedule approved in prior Form 27 # 404091256. Following a thorough review of the site data, it was determined that conducting a site investigation prior to a remedial excavation is the most efficient remedial strategy for this site. Initiating groundwater monitoring will investigate any potential impacts on groundwater before any efforts to mechanically remove the in-situ benzo(a)anthracene exceeding GSSLs. Collecting additional backgrounds will provide a better comparison between site conditions and native soils, narrowing the focus of future site investigations to address the inorganics and metals exceeding regulatory standards. Therefore, the operator is requesting that the implementation schedule be altered to accommodate the site investigation, the subsequent quarterly groundwater monitoring, and future site investigations that will be proposed as needed. The proposed schedule is found in the Implementation Schedule and Reclamation Plan sections of this Form 27.

The investigation will be conducted per the proposed implementation schedule, and the results will be provided in a subsequent Form 27. Per ECMC Rule 913.e., quarterly reporting will be conducted until closure criteria are achieved for the remediation project.

I hereby certify all statements made in this form are to the best of my knowledge true, correct, and complete.

Signed: Jeff Rollins

Title: Env. Geologist III

Submit Date: _____

Email: tas-chevron-5@tasman-geo.com

Based on the information provided herein, this Application for Site Investigation and Remediation Workplan complies with ECMC Rules and applicable orders and is hereby approved.

ECMC Approved: _____

Date: _____

Remediation Project Number: 33447

COA Type

Description

0 COA	
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ATTACHMENT LIST

Upon approval, the approved Form 27 and all listed attachments will be indexed to the Remediation Project file. Only the approved Form 27 will also be indexed to the related Facilities.

Att Doc Num

Name

404377211	SITE INVESTIGATION PLAN
404377212	SITE INVESTIGATION PLAN

Total Attach: 2 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)